## **ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2 Exhibit)** February 2003 PE NUMBER AND TITLE BUDGET ACTIVITY 5 - System Development and Demonstration 0604768A - Brilliant Anti-Armor Submunition (BAT) FY 2003 FY 2004 FY 2005 FY 2006 FY 2007 FY 2008 FY 2009 FY 2002 Cost to Total Cost COST (In Thousands) Estimate Estimate Estimate Estimate Estimate Estimate Estimate Complete Actual 42942 9836 Total Program Element (PE) Cost 106860 55075 594413 69 0 0 2NT BAT OPERATIONAL TEST 842 102792 0 2 0 0 0 687 BAT P3I 170360 688 ATACMS BLK II 3999 0 0 0 0 0 0 315361 MD6 ARMY TACTICAL MISSILE SYSTEM -55075 9833 64908 PENETRATOR

**A. Mission Description and Budget Item Justification:** This Program Element (PE) provides funding for the BAT P3I and related BAT Operational Test, Army Tactical Missile System (ATACMS) Block II, Multi-Mode Seeker and the ATACMS Penetrator (ATACMS-P) Programs.

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The BAT P3I program provided a new sensor suite (millimeter wave and imaging infrared) to the basic BATs acoustic and infrared capacity, which greatly improved inclement weather capability and effectiveness against countermeasures. The BAT P3I submunition attacked time critical, high priority targets, including cold, stationary, armored targets, Surface-to-Surface Missile (SSM) Transporter Erector Launchers (TELs), and Heavy Multiple Rocket Launchers (MRLs). The BAT/BAT P3I have the capability to be dispensed from alternate carriers which provides the Objective Force with additional capability with low collateral damage.

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The ATACMS Block II missile is a version of the currently fielded and combat-proven Army TACMS Block I missile and is designed to carry 13 BAT or BAT P3I submunitions. The ATACMS Block II (loaded with BAT or P3I submunitions) provides a deep strike capability to delay, disrupt, neutralize, or destroy armored combat vehicles/organization. The ATACMS Block II missile is fired from the M270A1 launcher and the High Mobility Artillery Rocket System (HIMARS).

The ATACMS-P is a standoff ballistic-missile-delivered penetrator weapon for use against fixed hard and deeply buried operational and tactical targets. ATACMS-P will complement current ATACMS Family of Munitions (AFOM) operational capabilities by adding that of attacking and destroying Hardened and/or Deeply Buried Targets (HDBT) with a penetrator payload/warhead. These targets are considered High Value Targets (HVTs) posing a considerable threat to U.S. and coalition forces.

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MULTI - MODE SEEKER DEVELOPMENT AND

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## **ARMY RDT&E BUDGET ITEM JUSTIFICATION (R-2 Exhibit)**

February 2003

BUDGET ACTIVITY

5 - System Development and Demonstration

PE NUMBER AND TITLE

0604768A - Brilliant Anti-Armor Submunition (BAT)

The Muti-Mode Seeker (MMS) Program will complete the development, assembly, and test of a Multi-Mode Tactical Seeker. This seeker will search, detect, acquire, and track stationary and moving TELs, MRLs, and armored vehicles. The seeker, which uses millimeter wave and imaging infrared, will permit modern weapon systems to be operational in near all-weather conditions. MMS funding is also required to support an urgent need for a Semi-Active Laser (SAL) BAT/Unmanned Aerial Vehicle (UAV)-BAT capability in order to conduct missions in various locations with differing terrain to support the ongoing war on terrorism. The submunition's ability to maneuver coupled with the SAL seeker will give the warfighter precise targeting capability with a reduced probability of collateral damage.

These programs support the Legacy to Objective transition path of the Transformation Campaign Plan (TCP).

The ATACMS BLK II and BAT P3I programs have been terminated after FY03 in order to fund Transformation and other higher priority Army programs.

B. Program Change Summary	FY 2002	FY 2003	FY 2004	FY 2005
Previous President's Budget (FY 2003)	122868	190293	110615	34723
Current Budget (FY 2004/2005 PB)	106860	42942	55075	9836
Total Adjustments	-16008	-147351	-55540	-24887
Congressional program reductions		-145293		
Congressional rescissions		-598		
Congressional increases				
Reprogrammings	-12613	-246		
SBIR/STTR Transfer	-3395	-1214		
Adjustments to Budget Years			-55540	-24887

ARMY RDT&E BUDGET ITEM JUSTIF	TICATION (R-2 Exhibit)	February 2003
BUDGET ACTIVITY 5 - System Development and Demonstration	PE NUMBER AND TITLE <b>0604768A - Brilliant Anti-Armor Sub</b> n	nunition (BAT)
FY04/FY05 decreases due to the termination of the ATACMS BAT P3I program	after FY03 in order to support Transformation and	other higher priority Army programs.

ARMY RDT&E BUDGET IT	EM JU	STIFI	CATIO	N (R-2	A Exhi	bit)	Fe	ebruary 2	003	
BUDGET ACTIVITY 5 - System Development and Demonstration			PE NUMBER <b>0604768A</b>			rmor Subi	munition	(BAT)	PROJECT MD6	
COST (In Thousands)	FY 2002 Actual	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	Cost to Complete	Total Cost
MD6 ARMY TACTICAL MISSILE SYSTEM - PENETRATOR	0		55075	9833	0	0	0	0	0	64908

A. Mission Description and Budget Item Justification: The Army Tactical Missile System-Penetrator (ATACMS-P) is a standoff ballistic-missile-delivered penetrator weapon for use against fixed hard and deeply buried operational and tactical targets. ATACMS-P will complement current ATACMS Family of Munitions (AFOM) operational capabilities by adding the capability to attack and destroy Hardened and/or Deeply Buried Targets (HDBT) with a penetrator payload/warhead. These targets, considered High Value Targets (HVT), pose a considerable threat to U.S. and coalition forces. The ATACMS-P missile provides the theater joint forces commander with all weather capability to defeat HDBTs with a standoff weapons system that eliminates the risk to aircrews required by existing (and currently planned) air dropped penetrating weapons. Due to missile speed, the ATACMS-P provides time critical response in disrupting or neutralizing high value targets in support of the joint forces commanders maneuver warfare plans. ATACMS-P provides the land component commander a system that also meets or exceeds the penetration capability of existing air dropped weapons.

The program covered by this exhibit represents the start of a program that makes use of the concept of spiral development. This budget exhibit supports 1) the completion of development spiral one which provides theater commanders with an ATACMS Penetrator system which is operationally and logistically supportable and 2) the fundamental building block of development spiral two, the development of an extended range solid rocket motor which will provide additional range to the spiral one warhead system while also improving the overall ability of the system to penetrate harder fixed targets.

The ATACMS Penetrator system spiral development program will incorporate performance upgrades which augment the capability to engage weapons of mass destruction. This system supports the Legacy to Objective transition path of the Transformation Campaign Plan (TCP).

Accomplishments/Planned Program	FY 2002	FY 2003	FY 2004	FY 2005
Initiate System Development and Demonstration (SDD) Program	0	0	30154	6113
Procure Handmade Fuzes	0	0	2593	0
Conduct Fuze and Penetrator Qualification for AFSB requirements and qualify industrial suppliers for full scale production of Penetrator	0	0	3007	0
and Fuze				
Procure, Fabricate and Assemble Flight Test Assets (2 Missiles)	0	0	2846	0
Flight test support and data acquisition including preparation, repair and modifications to existing test hard targets	0	0	1807	2006

ARMY RDT&E BUDGET	ITEM J	IUSTII	FICAT	ION (I	R-2A E	xhibit)		Febru	ary 2003	
BUDGET ACTIVITY 5 - System Development and Demonstration				BER AND TI 5 <b>8A - Bril</b>		i-Armor	Submun	ition (BA	PROJE <b>MD6</b>	
Accomplishments/Planned Program (continued) Initiate extended range solid rocket motor development							FY 200		3 FY 2004 0 14668	1714
Totals			1					0	0 55075	9833
B. Other Program Funding Summary	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009	To Compl	Total Cost
ATACMS Penetrator (CA6111)	C	(	) (	68493	87924	99553	99447	4871	0	360288

C. Acquisition Strategy: The ATACMS-P Acquisition Strategy is to leverage technology from the on-going ATACMS-P Advance Technology Demonstration (ACTD). The Army will pursue a Sole Source contract with Lockheed Martin, Dallas the ACTD Prime Contractor to mitigate risk. We will execute the program in a Spiral Block approach. Block I will meet our threshold requirement (Standard Range). ATACMS-P Block II will meet our objective requirement (Extended Range) variant. Milestone C is scheduled for FY06.

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BUDGET ACTIVITY 5 - System Developn	nent and D	emonstration			PE NUMBER AND TITLE 0604768A - Brilliant Anti-Armor Subr					munition (BAT)		
I. Product Development	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2003 Cost	FY 2003 Award Date	FY 2004 Cost	FY 2004 Award Date	FY 2005 Cost	FY 2005 Award Date	Cost To Complete	Total Cost	Targe Value o Contrac
a . LMMCF-D	SS/CPIF	LMMFCS-TX	0	0		49971	2Q	4383	1Q	0	54354	(
b. CECOM C4I	N/A	CECOM, NJ	0	0		1227	1Q	772	1Q	0	1999	(
c . Government Support	N/A	AMCOM,RSA	0	0		389	1Q	112	1Q	0	501	(
Subtotal:	_		0	0		51587		5267		0	56854	(
II. Support Cost	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2003 Cost	FY 2003 Award Date	FY 2004 Cost	FY 2004 Award Date	FY 2005 Cost	FY 2005 Award Date	Cost To Complete	Total Cost	Targe Value o Contrac
			0	0		0		0		0	0	(

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5 - System Developm	ient and Do	emonstration		060	4768A - B	Brilliant A	nti-Armo	or Submu	inition (E	SAT)	MD	6
III. Test and Evaluation	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2003 Cost	FY 2003 Award Date	FY 2004 Cost	FY 2004 Award Date	FY 2005 Cost	FY 2005 Award Date	Cost To Complete	Total Cost	Targe Value o Contra
a . Test Support	N/A	WSMR/RTTC	0	0		1397	1Q	1994	1Q	0	3391	
Subtotal:			0	0		1397		1994		0	3391	
V. Management Services	Contract Method & Type	Performing Activity & Location	Total PYs Cost	FY 2003 Cost	FY 2003 Award Date	FY 2004 Cost	FY 2004 Award Date	FY 2005 Cost	FY 2005 Award Date		Total Cost	Targo Value o Contra
a . In-House Support	N/A	PFRMS Proj Ofc, RSA	0	0		2091	1Q	2572	1Q	0	4663	
Subtotal:			0	0		2091		2572		0	4663	(
					'							

Schedule Profile Detail (R-4a Exhibit)								February 2003		
BUDGET ACTIVITY 5 - System Development and Demonstration		PE NUMBER AND TITLE 0604768A - Brilliant Anti-Armor Submunition						on (BAT)  PROJECT  MD6		
Schedule Detail_	FY 2002	FY 2003	FY 2004	FY 2005	FY 2006	FY 2007	FY 2008	FY 2009		
Award Design Contract			1Q							
Program Decision Review (PDR)			2Q							
Critical Decision Review (CDR)			4Q							
Hardware Qualification				1Q						
Production Qualification Flight Test (PQT)				4Q						
MIlestone C IPR					10					